

# Joseph Isabona

## List of Publications by Year in descending order

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25  
papers

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citations

1040056

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1058476

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25  
docs citations

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times ranked

70  
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric Propagation Modelling for Terrestrial Radio Frequency Communication Links in a Tropical Wet and Dry Savanna Climate. <i>Information (Switzerland)</i> , 2022, 13, 141.	2.9	19
2	Realistic Prognostic Modeling of Specific Attenuation due to Rain at Microwave Frequency for Tropical Climate Region. <i>Wireless Communications and Mobile Computing</i> , 2022, 2022, 1-10.	1.2	7
3	Updating analysis of key performance indicators of 4G LTE network with the prediction of missing values of critical network parameters based on experimental data from a dense urban environment. <i>Data in Brief</i> , 2022, 42, 108240.	1.0	14
4	Machine Learning-Based Boosted Regression Ensemble Combined with Hyperparameter Tuning for Optimal Adaptive Learning. <i>Sensors</i> , 2022, 22, 3776.	3.8	39
5	Development of a Multilayer Perceptron Neural Network for Optimal Predictive Modeling in Urban Microcellular Radio Environments. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 5713.	2.5	24
6	Large-scale Signal Attenuation and Shadow Fading Measurement and Modelling for Efficient Wireless Network Design and Management. , 2022, , .		5
7	Application of Supervised Machine Learning Based on Gaussian Process Regression for Extrapolative Cell Availability Evaluation in Cellular Communication Systems. <i>Communications in Computer and Information Science</i> , 2021, , 130-144.	0.5	1
8	Joint Statistical and Machine Learning Approach for Practical Data-Driven Assessment of User Throughput Quality in Microcellular Radio Networks. <i>Wireless Personal Communications</i> , 2021, 119, 1661.	2.7	5
9	Field Electromagnetic Strength Variability Measurement and Adaptive Prognostic Approximation with Weighed Least Regression Approach in the Ultra-high Radio Frequency Band. <i>International Journal of Intelligent Systems and Applications</i> , 2021, 13, 14-23.	1.1	2
10	Empirical and Statistical Determination of Optimal Distribution Model for Radio Frequency Mobile Networks Using Realistic Weekly Block Call Rates Indicator. <i>International Journal of Mathematical Sciences and Computing</i> , 2021, 7, 12-23.	0.7	0
11	Terrain-based adaption of propagation model loss parameters using non-linear square regression. <i>Journal of Engineering and Applied Science</i> , 2021, 68, .	2.0	13
12	Wavelet Generalized Regression Neural Network Approach for Robust Field Strength Prediction. <i>Wireless Personal Communications</i> , 2020, 114, 3635-3653.	2.7	8
13	Adaptation of Propagation Model Parameters toward Efficient Cellular Network Planning using Robust LAD Algorithm. <i>International Journal of Wireless and Microwave Technologies</i> , 2020, 10, 13-24.	1.0	6
14	Environment-Adaptation Based Hybrid Neural Network Predictor for Signal Propagation Loss Prediction in Cluttered and Open Urban Microcells. <i>Wireless Personal Communications</i> , 2019, 104, 935-948.	2.7	17
15	Investigating Predictive Capabilities of RBFNN, MLPNN and GRNN Models for LTE Cellular Network Radio Signal Power Datasets. <i>FUOYE Journal of Engineering and Technology</i> , 2019, 4, .	0.2	4
16	Effect of Learning Rate on GRNN and MLP for the Prediction of Signal Power Loss in Microcell Sub-Urban Environment. <i>International Journal on Communications Antenna and Propagation</i> , 2019, 9, 36.	0.3	2
17	IMPROVED ADAPTIVE SIGNAL POWER LOSS PREDICTION USING COMBINED VECTOR STATISTICS BASED SMOOTHING AND NEURAL NETWORK APPROACH. <i>Progress in Electromagnetics Research C</i> , 2018, 82, 155-169.	0.9	12
18	Coverage and Link Quality Trends in Suburban Mobile Broadband HSPA Network Environments. <i>Wireless Personal Communications</i> , 2017, 95, 3955-3968.	2.7	13

#	ARTICLE	IF	CITATIONS
19	Downlink Massive MIMO Systems: Achievable Sum Rates and Energy Efficiency Perspective for Future 5G Systems. <i>Wireless Personal Communications</i> , 2017, 96, 2779-2796.	2.7	15
20	Signal power loss prediction based on artificial neural networks in microcell environment. , 2017, , .		3
21	ENERGY-EFFICIENT COMMUNICATION IN LARGE SCALE ANTENNA SYSTEMS: IMPACT OF VARIABLE USER CAPACITY AND NUMBER OF TRANSMISSION ANTENNAS. <i>Progress in Electromagnetics Research M</i> , 2017, 58, 205-213.	0.9	0
22	Hybrid neural network approach for predicting signal propagation loss in urban microcells. , 2016, , .		19
23	Experimental Assessment of Specific Absorption Rate Using Measured Electric Field Strength in Benson Idahosa University and Environs. <i>American Journal of Modern Physics</i> , 2015, 4, 92.	0.1	5
24	A Practical Optimisation Method to Improve QOS and GOS-Based Key Performance Indicators in GSM Network Cell Cluster Environment. <i>International Journal of Wireless and Mobile Networks</i> , 2014, 6, 93-107.	0.2	0
25	An Enhanced SINR-Based Call Admission Control in 3G Networks. <i>International Journal of Wireless and Mobile Networks</i> , 2011, 3, 49-64.	0.2	1